

Title (en)

Dry two-component type developer for electrophotography

Title (de)

Trockenzweikomponentenentwickler für die Elektrophotographie

Title (fr)

Révéléateur sec du type à deux composants pour électrophotographique

Publication

EP 1394621 A3 20051102 (EN)

Application

EP 03255462 A 20030902

Priority

JP 2002256783 A 20020902

Abstract (en)

[origin: EP1394621A2] The present invention provides a dry two-component type developer for electrophotography comprising a carrier particle and a toner particle, wherein a toner water adsorption ratio (T) obtained by a following equation (1) for the toner particle ranges from 1.0 to 7.0 and a carrier water adsorption ratio (C) obtained by a following equation (2) is 20.0 or less, and a water adsorption ratio (T/C) expressed in a following equation (3) representing a relationship between the toner water adsorption ratio (T) and the carrier water adsorption ratio (C) is 5.0 or less; <DF NUM="(1),">a toner water adsorption ratio (T) = $\frac{\text{water adsorption amount (TH) of the toner particle}}{\text{N}_2 \text{ adsorption amount (TN) of the toner particle}}$ </DF> <DF NUM="(2),">a carrier water adsorption ratio (C) = $\frac{\text{water adsorption amount (CH) of the carrier particle}}{\text{N}_2 \text{ adsorption amount (CN) of the carrier particle}}$ </DF> and <DF NUM="(3).">a water adsorption ratio (T/C) = $\frac{\text{toner water adsorption ratio (T)}}{\text{carrier water adsorption ratio (C)}}$ </DF> <??>In the dry two-component type developer for electrophotography according to the present invention, even if use conditions are changed, a developing characteristic is less varied.

IPC 1-7

G03G 9/08; **G03G 9/10**; **G03G 9/107**; **G03G 9/113**

IPC 8 full level

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CPC (source: EP US)

G03G 9/00 (2013.01 - US); **G03G 9/0821** (2013.01 - EP US); **G03G 9/1085** (2020.08 - EP US)

Citation (search report)

- [A] EP 1065571 A2 20010103 - CANON KK [JP]
- [X] PATENT ABSTRACTS OF JAPAN vol. 018, no. 674 (P - 1846) 19 December 1994 (1994-12-19)
- [DA] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 06 28 June 1996 (1996-06-28)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 02 26 February 1999 (1999-02-26)

Cited by

EP1947519A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1394621 A2 20040303; **EP 1394621 A3 20051102**; **EP 1394621 B1 20080521**; DE 60321100 D1 20080703; JP 2004094035 A 20040325; JP 4195593 B2 20081210; US 2004043320 A1 20040304; US 6905806 B2 20050614

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